

TDMS No. 20519 - 02

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]

Date Report Requested: 05/18/2011

Test Type: 90-DAY

Time Report Requested: 08:14:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

First Dose M/F: 11/03/08 / 11/03/08

Species/Strain: MICE/B6C3F1

Lab: BNW

F1_M3

C Number: C20519

Lock Date: 06/09/2009

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.4.0.0_003

PWG Approval Date: NONE

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Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Time Report Requested: 08:14:43

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

B6C3F1 MICE MALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
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Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(9)	(0)	(0)	(0)	(0)	(5)
Inflammation, Neutrophil						1 [1.0]
Mineralization	1 [2.0]					
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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Lab: BNW

B6C3F1 MICE MALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(6)	(0)	(0)	(0)	(0)	(6)
Pituitary Gland	(10)	(0)	(0)	(0)	(1)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(8)	(0)	(0)	(0)	(0)	(9)
Lymph Node, Mandibular	(7)	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mediastinal	(6)	(0)	(0)	(0)	(0)	(4)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(1)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Skin	(10)	(0)	(0)	(0)	(0)	(10)
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MUSCULOSKELETAL SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Erosion, Focal					2 [1.5]	
Inflammation, Chronic Active		10 [1.4]	10 [1.6]	10 [2.0]	10 [2.1]	10 [2.5]
Metaplasia, Squamous		10 [1.4]	10 [2.2]	10 [3.8]	10 [4.0]	10 [4.0]
Ulcer, Focal					3 [1.3]	8 [2.0]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Histiocyte						1 [2.0]
Arteriole, Hypertrophy						1 [1.0]
Bronchiole, Goblet Cell, Hyperplasia					1 [3.0]	1 [3.0]
Perivascular, Inflammation, Chronic Active					1 [1.0]	1 [3.0]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet					2 [1.0]	8 [1.4]
Respiratory Epithelium, Accumulation, Hyaline Droplet				1 [1.0]	7 [1.1]	9 [2.0]
Trachea	(10)	(10)	(10)	(9)	(10)	(10)
Inflammation, Chronic	1 [1.0]				1 [1.0]	
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

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Date Report Requested: 05/18/2011

Test Type: 90-DAY

Metal working fluids (Syntilo 1023)

Time Report Requested: 08:14:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: SYNTILO1023

First Dose M/F: 11/03/08 / 11/03/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Casts						1 [1.0]
Nephropathy	1 [1.0]					4 [1.0]
Cortex, Infarct, Focal						1
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF MALE ***

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Species/Strain: MICE/B6C3F1

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Time Report Requested: 08:14:43

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Lab: BNW

B6C3F1 MICE FEMALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
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Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(0)	(8)
Inflammation, Neutrophil	1 [1.0]					
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(9)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Necrosis, Focal	1 [1.0]					
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Periductular, Inflammation, Focal, Chronic						1 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Adrenal Medulla	(9)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(3)	(0)	(0)	(0)	(0)	(9)
Cyst, Multiple						1
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<hr/>						
GENERAL BODY SYSTEM						
None						
<hr/>						
GENITAL SYSTEM						
Clitoral Gland	(7)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
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HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(8)	(0)	(0)	(0)	(0)	(9)
Lymph Node, Mandibular	(7)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mediastinal	(3)	(0)	(0)	(0)	(0)	(3)
Lymph Node, Mesenteric	(9)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
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INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
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Test Type: 90-DAY

Metal working fluids (Syntilo 1023)

Time Report Requested: 08:14:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: SYNTILO1023

First Dose M/F: 11/03/08 / 11/03/08

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(9)	(9)	(10)	(10)	(10)	(10)
Erosion, Focal			2 [1.0]	3 [1.0]	1 [1.0]	
Inflammation, Chronic Active		9 [1.2]	10 [1.7]	10 [1.9]	10 [2.3]	10 [2.3]
Metaplasia, Squamous	1 [1.0]	9 [1.0]	10 [2.1]	10 [3.5]	10 [4.0]	10 [4.0]
Ulcer, Focal				2 [1.0]	6 [1.8]	7 [2.0]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Histiocyte					1 [2.0]	3 [2.7]
Arteriole, Hypertrophy				1 [2.0]	2 [1.5]	3 [2.0]
Bronchiole, Goblet Cell, Hyperplasia				1 [2.0]	1 [3.0]	3 [3.0]
Perivascular, Inflammation, Chronic Active				1 [2.0]	1 [2.0]	3 [3.0]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 [1.0]			1 [1.0]	2 [1.0]	9 [1.4]
Respiratory Epithelium, Accumulation, Hyaline Droplet				6 [1.5]	9 [1.8]	10 [3.3]
Trachea	(10)	(10)	(10)	(9)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						

a - Number of animals examined microscopically at site and number of animals with lesion

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Lab: BNW

B6C3F1 MICE FEMALE	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	1 [1.0]					1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)